

K-12 STEM Education

An important role in the success and economic longevity of the Gulf South region.

The Center for K-12 STEM Education ushers in the next generation of entrepreneurs, engineers and scientists.

Leading the way

THE TULANE UNIVERSITY CENTER FOR K-12 STEM EDUCATION helps educate and inspire more than 3000 middle and high school students and teachers annually. From courses and workshops for students to professional development for teachers, the center offers diverse activities during the academic year and throughout the summer.

- **TULANE SCIENCE SCHOLARS PROGRAM** provides hands-on educational opportunities and course credit in the summer to 10th-12th grade students who have exceptional talent in science, mathematics and engineering.
- **GIRLS IN STEM AT TULANE (GiST)** gives 5th through 7th grade girls opportunities to work with women role models in STEM fields through hands-on workshops. Workshops developed and offered by faculty and student teams will encourage and empower girls to inquire, investigate, and discover in a positive environment.
- **BOYS IN STEM AT TULANE (BATS)** provides 5th-7th grade boys the opportunity to meet and work with both male and female role models in STEM fields. The Tulane-

developed workshops encourage inquiry, investigation, and discovery in a science and engineering environment.

- **CORE ELEMENT** aims to improve student achievement and interest in STEM subjects by providing training and resources to local K-12 teachers by partnering with Tulane for STEM content. Core Element provides year-round professional development to elementary, middle, and high school teachers. In addition, Core Element hosts STEM summer camps for K-12 students allowing teachers to learn alongside students.
- **THE PERRY INITIATIVE** is a national program that encourages high school girls to enter the female-deficient fields of engineering and orthopaedics. By partnering with Tulane, workshops and presentations from medical and engineering professionals and faculty are offered on campus annually.
- **THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AIChE)** in partnership with Tulane School of Science and Engineering hosts an annual free outreach program for both high and middle school students. The purpose is to expose students to the profession of chemical engineering and engineering in general, and to give students the opportunity to interact with professional engineers.



Regional and national programming

The Center for K-12 STEM Education provides year-round support, from undergraduate mentors to alumni volunteers to hosting events, for student participation in regional and national programs.

- **GREATER NEW ORLEANS SCIENCE AND ENGINEERING FAIR** is held annually and is open to all 6th -12th grade students in Jefferson, Orleans, Plaquemines and St. Bernard parishes.
- **FIRST® LEGO® LEAGUE** offers middle school students opportunities to design, build and compete with a robot constructed of LEGO®s.
- **FIRST® ROBOTICS COMPETITION** is referred to as “the varsity sports for the mind” for high school students. Teams of 25 work together to raise funds, design team brands and program robots to perform prescribed tasks in rigorous, arena-based competition.

Now is the time to invest in STEM education

Your support for K-12 STEM Education and programming at Tulane University provides a bright future for Louisiana students and ensures the prosperity of the Gulf South region. There are many ways to support the center, through an endowed fund, stipends, scholarships, incentive support and even naming opportunities.

These programs are effective platforms for teaching students how to apply science and technologies such as physics, electronics and computer science. Tulane’s involvement increases the likelihood that they will pursue STEM educations and careers.”

— **RICHARD MAYER**

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